



DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
FEDERAL SECURITY AGENCY
PUBLIC HEALTH SERVICE

IN REPLYING, ADDRESS THE

June 29, 1954

Communicable Disease Center
Enteric Bacteriology Laboratories
P. O. Box 183
Chamblee, Georgia

Dr. Joshua Lederberg
Department of Genetics
University of Wisconsin
Madison 6, Wisconsin

Dear Dr. Lederberg:

The report on your cultures SW1103, SW1104 and SW1105 has gone forward under separate cover. Your results were confirmed. The group E. cultures and serums also were sent. I hope the extreme weather (100.3 in Atlanta) will not affect them adversely. I was sorry not to send absorbed serums but just now we did not have time to do this. Further, I will go over the nonmotile cultures to see what has come in since you were here.

The story you tell about the "tracks" is closely similar to what Stocker told me. I am glad to see you are in agreement. Also, I am very glad to have news of the sexuality of E. coli. Since the F + and F - forms and the latent phages were described I had wondered just how much lysogenicity had to do with recombination. Could the cells in contact be one lysogenic and one nonlysogenic and the passage of the nucleus have something to do with the phage or phages? I shall await further developments with interest.

When you are ready for them I think Ewing can furnish O55:B5 and O111:B4 from several widely separated isolations. They also are available with different H antigens.

I think one is on safe ground in differentiating carriers of S. typhi and S. paratyphi A and B from carriers of the "animal" types since the former are so much more prone to produce persistent ("permanent") excretors. Naturally, no carrier should be approved until he has cleared up but I believe one is justified in demanding firmer proof that S. typhi has disappeared than that one of the enteritis ~~is~~ no longer present. I will try to obtain the information you want from the Epidemiology Branch.

Value of vaccination with S. gallinarum is debatable, one can find many conflicting statements. S. abortus equi vaccine when

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properly used seems to produce a solid immunity so far as the act of abortion is concerned. I think you can find a good deal of data on *S. typhi murium* and *S. enteritis* vaccination in mice in the long series of papers published by Webster in *J. Exp. Med.* a number of years ago.

With kind regards, I am

For the Officer-in-Charge, Bacteriology Section

Sincerely yours,

A handwritten signature in cursive script, appearing to read "P. Edwards".

Philip R. Edwards, Ph. D.
Bacteriologist-in-Charge
Enteric Bacteriology Unit